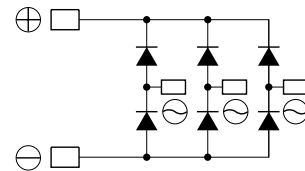


- 3 phase bridge
- Insulated Type
- UL Recognized

Technical drawing of a label with dimensions and callouts:

- Top view dimensions:
  - Overall width: 30
  - Overall height: 29
  - Left side features: R12.5 (fillet), 13 (radius), 22 (width), 12 (width), 12 (width), 12 (width), (22) (width).
  - Right side features: 2- $\phi 6.5$  (holes).
  - Bottom view dimensions:
    - Overall width: 80
    - Overall height: 68
    - Bottom center features: 3 (width), 68 (width).
- Side view dimensions:
  - Overall height: 31
  - Label height: 18.5
  - Label width: 4
  - Label text: LABEL
  - Tab dimensions: Tab#250, t=0.8, 2 (height), 18.5 (height).



**RM10TA-M,-H****MEDIUM POWER GENERAL USE  
INSULATED TYPE****ABSOLUTE MAXIMUM RATINGS**

Symbol	Parameter	Voltage class		Unit
		M	H	
VRRM	Repetitive peak reverse voltage	400	800	V
VRSM	Non-repetitive peak reverse voltage	500	900	V
Ea	Recommended AC input voltage	110	220	V

Symbol	Parameter	Conditions	Ratings	Unit
Io	DC output current	Three-phase full wave rectifying circuit, Tc=107°C	20	A
IFSM	Surge (non-repetitive) forward current	One half cycle at 60Hz, peak value	350	A
I <sup>2</sup> t	I <sup>2</sup> t for fusing	Value for one cycle of surge current	4.2 × 10 <sup>2</sup>	A <sup>2</sup> s
f	Maximum operating frequency		1000	Hz
Tj	Junction temperature		-40~+150	°C
Tstg	Storage temperature		-40~+125	°C
Viso	Isolation voltage	Charged part to case	2500	V
—	Mounting torque	Mounting screw M6	1.96~2.94	N·m
			20~30	kg·cm
—	Weight	Typical value	120	g

**ELECTRICAL CHARACTERISTICS**

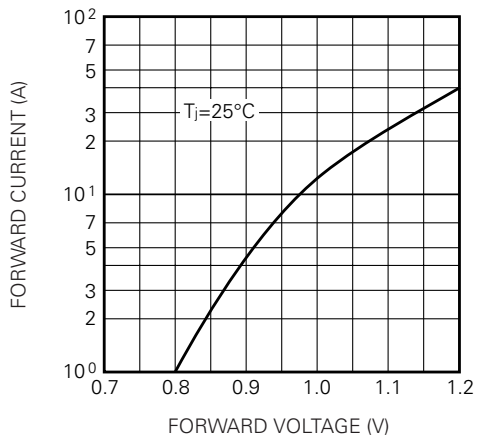
Symbol	Parameter	Test conditions	Limits			Unit
			Min.	Typ.	Max.	
IRRM	Repetitive reverse current	Tj=150°C, VRRM applied	—	—	1.5	mA
VFM	Forward voltage	Tj=25°C, IFM=20A, instantaneous meas.	—	—	1.07	V
Rth (j-c)	Thermal resistance	Junction to case	—	—	1.0	°C/W
Rth (c-f)	Contact thermal resistance	Case to fin, conductive grease applied	—	—	0.1	°C/W
—	Insulation resistance	Measured with a 500V megohmmeter between main terminal and case	10	—	—	MΩ

# RM10TA-M,-H

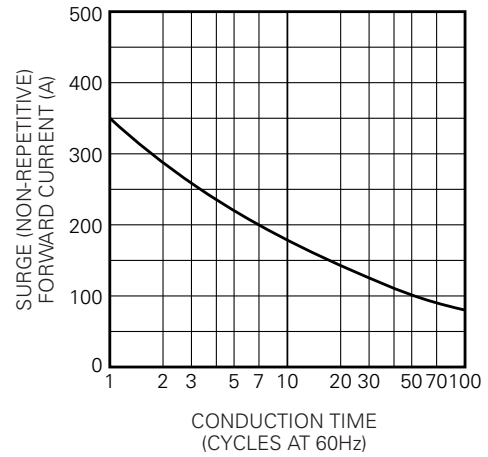
MEDIUM POWER GENERAL USE  
INSULATED TYPE

## PERFORMANCE CURVES

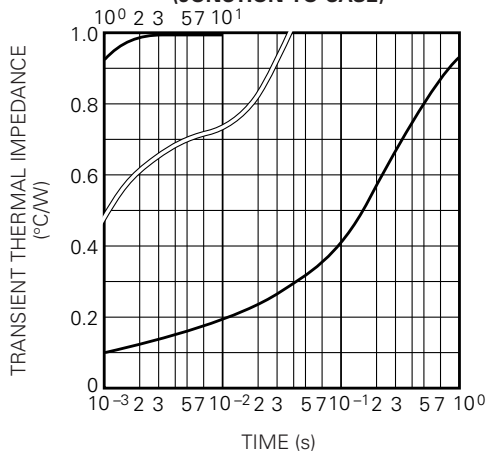
MAXIMUM FORWARD CHARACTERISTIC



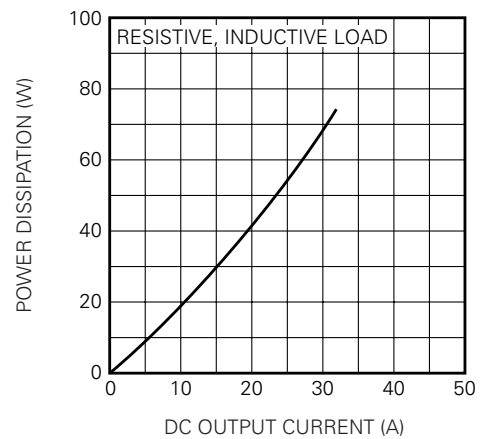
ALLOWABLE SURGE (NON-REPETITIVE)  
FORWARD CURRENT



MAXIMUM TRANSIENT THERMAL IMPEDANCE  
(JUNCTION TO CASE)



MAXIMUM POWER DISSIPATION



ALLOWABLE CASE TEMPERATURE  
VS. DC OUTPUT CURRENT

